

II. CLAIMS

Please amend claims 20-38 as follows: CLAIMS 1-13 ARE CANCELED AND REPLACED BY CLAIMS 14-23.

CLAIM LISTINGS

What is claimed is:

1. (Canceled) A HDMI plug connector comprises an insulated housing, a terminal line separator, a metallic cover shell, a plurality of puncture terminals, a plastic outer shell, and a front cover, characterized the terminal line separator further consists of a terminal fixing plate and a line binder, when the puncture terminal is inserted in the insulated housing, the conduction lines are lined up on the line binder and punctured contact with the puncture terminals, followed by placing in the terminal fixing plate to secure the spacings among the puncture terminals.
2. (Canceled) A HDMI plug connector as in claim 1, wherein when the insulated housing and terminal line separator are combined as an assembled part and inserted through the insertion opening of the front metallic shell, and the assembled part and the front metallic shell are further interlocked by use of the latch slots at the rear end of the front metallic shell and the a latch lug on the an insertion portion of the insulated housing, followed by incorporating the a rear metallic shell by use of the protrusions on the front metallic shell and the latch holes on the rear metallic shell to form a compact metallic unit.
3. (Canceled) A HDMI plug connector as in claim 2, wherein the metallic unit is placed into the plastic outer shell, and the front cover is attached around the insertion opening of the front metallic shell, whereby the buckle on the front cover interlock with a notch on the plastic outer shell, and the metallic unit is solidified inside the plastic outer shell, and the assembly of the HDMI plug connector is completed.

4. (Canceled) A HDMI plug connector as in claim 1, wherein the insulated housing consists of an insertion front at front part and a retaining platform at rear part, and the insulated housing also provides an insertion holder for the puncture terminal, wherein the insertion front is a flat projected body, which provides two rows of terminal receiving slots 131 aligned at its top and bottom side extended throughout the portion from the insertion front 13 at the front part to the retaining platform at the rear part, and utilizes the curved contour shape at the bottom of both sides of the projected body to form an error proof design.
5. (Canceled) A HDMI plug connector as in claim 4, wherein the retaining platform is formed mainly by a horizontal T shape block combined with the insertion front, and a plurality of protrusions are furnished on the top and bottom ends for interlocking with the latch slots on the front metallic shell, wherein the flat part of the horizontal T shape block forms the retaining platform, and the top and bottom sides of the retaining platform provide a seat for the terminal line separator, and a plurality of concaves on the top and bottom sides of the positioning block at the both sides of the retaining platform are furnished for insertion of the positioning poles of the terminal fixing plate of the terminal line separator.
6. (Canceled) A HDMI plug connector as in claim 1, wherein the terminal fixing plate and line binder are mated with each other in a convex and concave area, wherein a plurality of the ribs of different width are furnished on the inner side surface near the end sections of both long sides of the line binder, which keep in line with the same spacing between each rib for receiving the fixing protrusions of the terminal fixing plate, and the ribs has a step like profile in order to interlock each other firmly.
7. (Canceled) A HDMI plug connector as in claim 4, wherein the projection placed on the long side end of the outside surface of the line binder has the same height as the convex poles, which are placed between two rows of positioning slots, and the height of the projection approximately equals to the thickness of the puncture terminals.

8. (Canceled) A HDMI plug connector as in claim 1, wherein a plurality of the fixing protrusions of different thickness aligned in a row with the same spacing formed therein on the inner side surface near the end sections of both long sides of the terminal fixing plate for receiving conduction lines, and each fixing protrusion extended sideward from top forms a profile of an arrow, wherein a plurality of the fixing insertion slots are furnished on the a concave section formed between the fixing protrusions of the terminal fixing plate for insertion of the puncture terminals, and the positions of the insertion slots are interlaced corresponding to the positions of the puncture terminal, two positioning poles are provided in diagonal on each short side of the fixing protrusions and tightly mated with the concave on the insulated housing.
9. (Canceled) A HDMI plug connector as in claim 1, wherein the metallic cover shell consists of the front and rear part, wherein the appearance of the front metallic shell is similar to the insertion front of the insulated housing for receiving the insertion front, and the front metallic shell is furnished with a plurality of the latch slots and lugs on the top and bottom of the long side surface, whereby the latch slots interlock the latch lugs on the retaining platform of the insulated housing, and the protrusions interlock the latch holes on the rear metallic shell.
10. (Canceled) A HDMI plug connector as in claim 1, wherein the rear metallic shell of a rectangular body having a front hollowed opening attaches a hollowed cylindrical tube at the rear end to provide a sufficient inner space for receiving the conduction line, and the positions of the latch holes furnished on the front end of the rear metallic shell are in correspondence with the positions of the lugs on the front metallic shell, wherein the stops furnished on a suitable spot of both sides of the narrow plate of the rear metallic shell, which may prevent a further movement by use of an inward slant stop thrusting against the side edge of the rectangular section of the accommodated front metallic shell.

11. (Canceled) A HDMI plug connector as in claim 2, wherein the plastic outer shell is adapted for receiving the rear metallic shell incorporated with the front metallic shell and firmly housing the rear metallic shell, a plurality of notches are furnished on the front end of the top and bottom sides of the plastic outer shell, the number and position of the notches correspondingly match the same of the buckles on the front cover.
12. (Canceled) A HDMI plug connector as in claim 1, wherein the front cover has an opening similar to the insertion front and front metallic shell, so it may confine the front part of the front metallic shell and thrust against the front metallic shell at the rectangular section of the front metallic shell, and a plurality of buckles are furnished on the top and bottom sides of the frame of the front cover.
13. (Canceled) A HDMI plug connector as in claim 1, wherein the puncture terminal is formed into a strip by punching a flexible conductive material, whereby the base extends to the two ends to form one end as an inserting contact portion has a plurality of tooth spike for use of fixing terminals, and on the opposite side of the tooth spike a flexible contact is formed with a curvature at its end, furthermore, at the end of the conduction line contact portion there is formed a line puncture with a U-shape for easy puncture of conduction lines.
14. (NEW) A HDMI plug connector comprising an insulated housing, a terminal line separator, a metallic cover shell, a plurality of punctured terminals, a plastic outer shell, and a front cover, wherein the terminal line separator further consists of a terminal fixing plate and a line binder, the insulated housing and the terminal line separator are combined as an assembled portion and inserted through an insertion opening of a front metallic shell, the assembled portion and the front metallic shell are further interlocked by use of latch slots at the front metallic shell's rear end and latch lugs on an insertion portion of the insulated housing, and a rear metallic shell is incorporated therein by use of protrusions on the front metallic shell,

and latch holes on the rear metallic shell to form a compact metallic unit.

15. (NEW) The HDMI plug connector according to claim 1, wherein the metallic unit is placed into the plastic outer shell, the front cover is attached around the insertion opening of the front metallic shell, buckles on the front cover interlock with notches on the plastic outer shell, the metallic unit is solidified inside the plastic outer shell, and the HDMI plug connector is assembled.
16. (NEW) The HDMI plug connector as in claim 1, wherein a retaining platform is formed mainly by a horizontal T shape block combined with an insertion front, a plurality of protrusions are furnished on top and bottom ends for interlocking with the latch slots on the front metallic shell, a flat portion of the horizontal T shape block forms the retaining platform, top and bottom sides of the retaining platform provide a seat for the terminal line separator, and a plurality of concave slots positioned on top and bottom sides of a positioning block at both sides of the retaining platform are furnished for insertion of positioning poles positioned on the terminal fixing plate, which forms a portion of the terminal line separator.
17. (NEW) The HDMI plug connector as in claim 1, wherein the terminal fixing plate and line binder are mated with each other in a convex and a concave area, a plurality of ribs having different width are furnished on an inner side surface near end sections of both long sides of the line binder, the ribs are equally spaced and the spacing correspond to the spacing of a set of protrusions located on the terminal fixing plate, and the protrusions are designed to firmly interlock with the ribs having step-like characteristics when the line binder is fitted with the fixing plate or vice versa.
18. (NEW) The HDMI plug connector according to claim 4, wherein a projection placed on the long side end of an outside surface of the line binder has the same height as convex poles, which are placed between two rows of positioning slots, and the height of the projection approximately equals the punctured terminals thickness.

19. (NEW) The HDMI plug connector according to claim 1, wherein a plurality of fixing protrusions of variable thickness are aligned in a row with identical spacing formed therein on an inner side surface near end sections of both long sides of the terminal fixing plate for receiving conduction lines, each fixing protrusion located on top and extending sideward forms an arrow-like profile, plurality of fixing insertion slots are furnished on a concave section between the fixing protrusions of the terminal fixing plate for inserting punctured terminals, positions of the insertion slots are interlaced and correspond to positions of the punctured terminals, and two positioning poles are provided diagonally on each short side of the fixing protrusions and are tightly mated with concave slots on the insulated housing.
20. (NEW) The HDMI plug connector according to claim 1, wherein the metallic cover shell consists of a front and a rear portion, the appearance of the front metallic shell is similar to an insertion front of the insulated housing to precisely receive the insertion front when assembled, the metallic shell is furnished with a plurality of latch slots and with a plurality of lugs located on top and bottom of its long side surfaces, latch slots interlock with the protrusions on a retaining platform of the insulated housing and lugs interlock with the latch holes on the rear metallic shell.
21. (NEW) The HDMI plug connector according to claim 1, wherein the rear metallic shell with a rectangular body having a front hollowed opening attaches a hollowed cylindrical tube at its rear end to provide a sufficient inner space for receiving conduction lines, latch holes position furnished on the front end of the rear metallic shell correspond with lugs position on the metallic shell, and stops furnished on a suitable spot on both sides of a narrow plate of the rear metallic shell is capable of preventing further movement by using inward slanted stops, which are capable of thrusting against the side edges of a rectangular section of an accommodating portion of the front metallic shell.
22. (NEW) The HDMI plug connector according to claim 2, wherein the plastic outer shell is adapted for receiving the metallic shell incorporated with the front metallic shell which firmly houses the rear metallic shell, a plurality of notches are furnished on the front

end of the plastic outer shell top and bottom sides, and the notches positions and number correspond directly with that of buckles on the front cover.

23. (NEW) The HDMI plug connector according to claim 1, wherein the front cover has an opening similar to an insertion front portion and the front metallic shell, which is capable of confining the front portion of the metallic shell and thrust against the front metallic shell at a rectangular section of the shell, and a plurality of buckles are furnished on top and bottom sides of the front cover frame.